

chain nodes :

12 13 14 16 18 19 22 23

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

1-22 3-12 12-13 13-14 14-16 16-18 18-19 22-23

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

exact/norm bonds :

1-22 3-12 5-7 6-10 7-8 8-9 9-10 12-13 14-16 16-18 18-19 22-23

exact bonds :

13-14

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

G1:C,O,N

G2:C,O,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:CLASS
13:CLASS 14:CLASS 16:CLASS 18:CLASS 19:Atom 22:CLASS 23:Atom

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Trying 3106016892...Open

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LOGINID:ssspta1624rxu

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Dec 17 The CA Lexicon available in the CAPLUS and CA files
NEWS 3 Feb 06 Engineering Information Encompass files have new names
NEWS 4 Feb 16 TOXLINE no longer being updated
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7 May 07 DGENE Reload
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL
NEWS 9 JUL 13 New SDI alert frequency now available in Derwent's
DWPI and DPCI
NEWS 10 Aug 23 In-process records and more frequent updates now in
MEDLINE
NEWS 11 Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS 12 Aug 23 Adis Newsletters (ADISNEWS) now available on STN

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CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001

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FILE 'HOME' ENTERED AT 15:07:59 ON 14 SEP 2001

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 15:08:10 ON 14 SEP 2001

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STRUCTURE FILE UPDATES: 13 SEP 2001 HIGHEST RN 356757-49-8
DICTIONARY FILE UPDATES: 13 SEP 2001 HIGHEST RN 356757-49-8

TSCA INFORMATION NOW CURRENT THROUGH January 11, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

=>

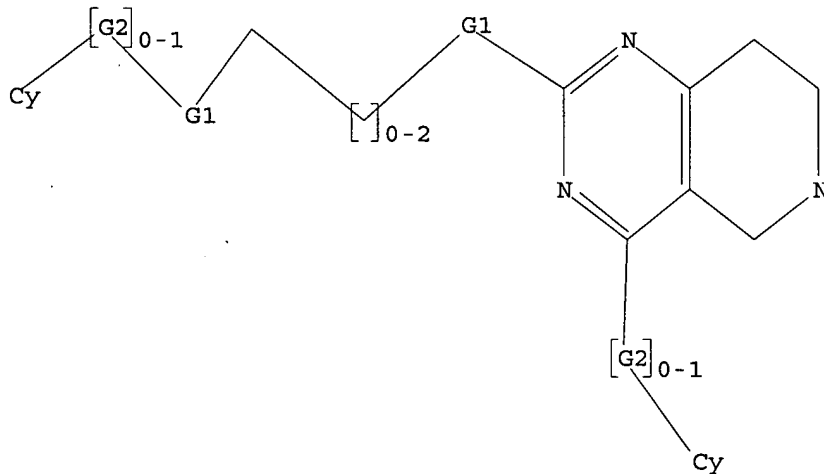
Uploading 09738066.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C,O,N

G2 C,O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:08:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 8982 TO ITERATE

11.1% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

0 ANSWERS

09/738066

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: . ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 173969 TO 185311
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss ful

FULL SEARCH INITIATED 15:09:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 181564 TO ITERATE

100.0% PROCESSED 181564 ITERATIONS 12 ANSWERS
SEARCH TIME: 00.00.23

L3 12 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	134.49	134.64

FILE 'CAPLUS' ENTERED AT 15:10:16 ON 14 SEP 2001
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FILE COVERS 1947 - 14 Sep 2001 VOL 135 ISS 13
FILE LAST UPDATED: 13 Sep 2001 (20010913/ED)

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=> s l3

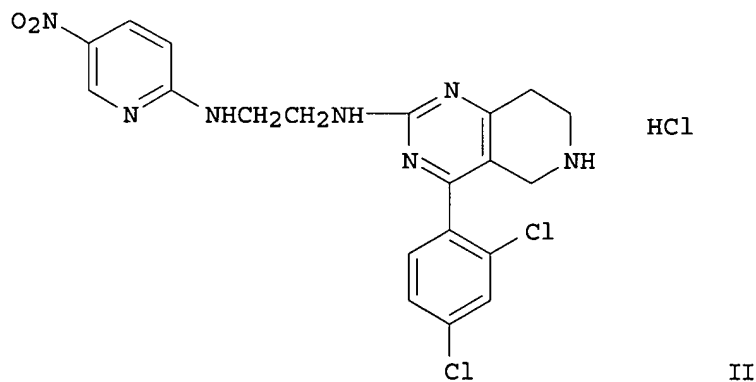
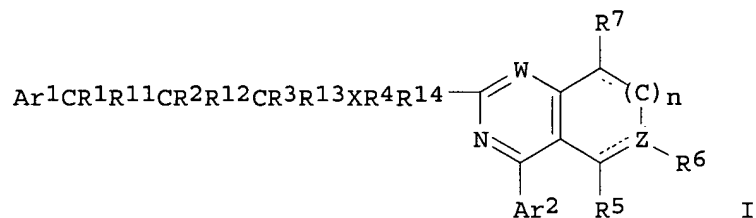
L4 1 L3

=> d fbib abs hitstr tot

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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
AN 2001:453065 CAPLUS
DN 135:46199
TI Bicyclic inhibitors of glycogen synthase kinase 3
IN Nuss, John M.; Zhou, Xiaohui A.
PA Chiron Corp., USA
SO PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001044246	A1	20010621	WO 2000-US34049	20001214
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
				US 1999-172403 P 19991217	
OS	MARPAT 135:46199				
GI					



AB Bicyclic compds. I [W,X, Y, Z = (un)substituted C, N, S; n = 0-2; Ar1, Ar2

= (un)substituted aryl, aryloxy, arylamino, heteroaryl; R1-R4 = H, (un)substituted OH, alkyl, cycloalkyl, amino, acyl, aryl, heteroaryl; R11-R14 = H, (un)substituted alkyl; R5-R7 = H, OH, halo, CO2H, NO2, CN, (un)substituted alkyl, cycloalkyl, heterocyclyl, alkoxy, aryl, acyl, acyloxy, amino, amido, amidino, imido, arylsulfonyl, arylsulfonamido]

were

prepd. for use in inhibiting the activity of glycogen synthase kinase (GSK3) in vitro and a treatment of GSK3 mediated disorders in vivo, such as diabetes, Alzheimer's disease and other neurodegenerative disorders, obesity, atherosclerotic cardiovascular disease, essential hypertension, polycystic ovary syndrome, syndrome X, ischemia, traumatic brain injury, bipolar disorder, immunodeficiency or cancer. Thus, the pyridopyrimidine II was prepd. from Me 4-oxo-3-piperidinecarboxylate in 7 steps. I have IC50 against GSK3 of .1 to req. 1 .mu.M.

IT 344958-30-1P 344958-31-2P 344958-32-3P
344958-35-6P 344958-38-9P 344958-43-6P
344958-44-7P

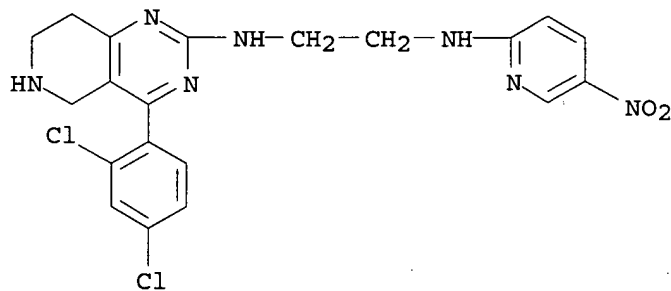
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of pyridopyrimidines as inhibitors of glycogen synthase kinase 3)

RN 344958-30-1 CAPLUS

CN 1,2-Ethanediamine,

N-[4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]-N'-(5-nitro-2-pyridinyl)-, hydrochloride (9CI) (CA INDEX NAME)

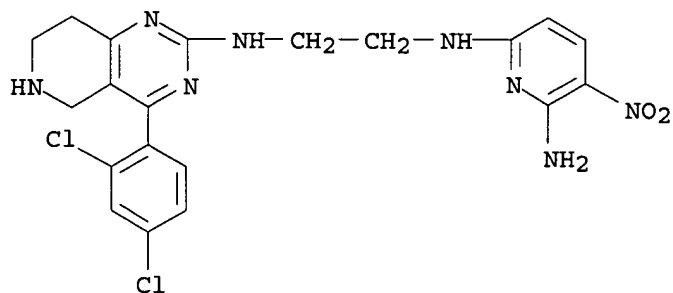


● x HCl

RN 344958-31-2 CAPLUS

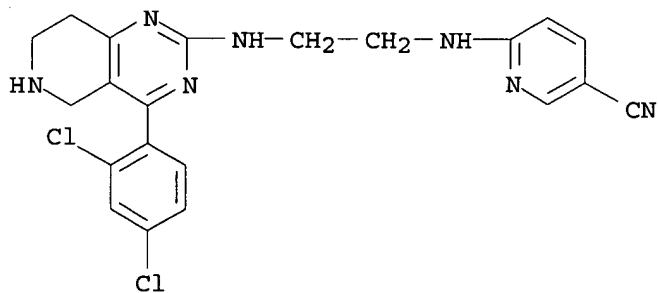
CN 2,6-Pyridinediamine, N6-[2-[[4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]amino]ethyl]-3-nitro-, hydrochloride
(9CI) (CA INDEX NAME)

09/738066



● x HCl

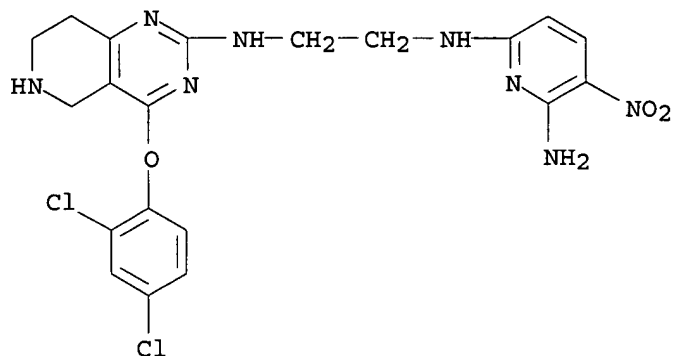
RN 344958-32-3 CAPLUS
CN 3-Pyridinecarbonitrile, 6-[[2-[[4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]amino]ethyl]amino]-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

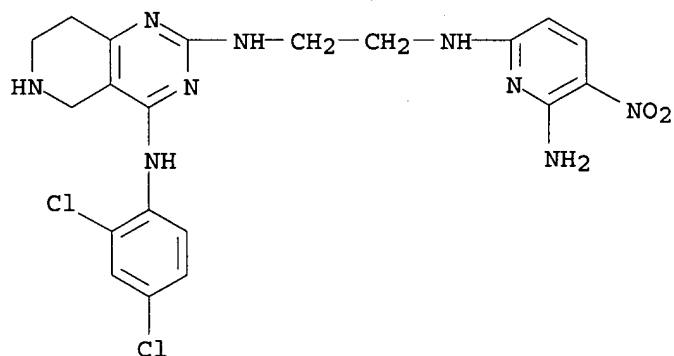
RN 344958-35-6 CAPLUS
CN 2,6-Pyridinediamine, N6-[2-[[4-(2,4-dichlorophenoxy)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]amino]ethyl]-3-nitro-, hydrochloride (9CI) (CA INDEX NAME)

09/738066



● x HCl

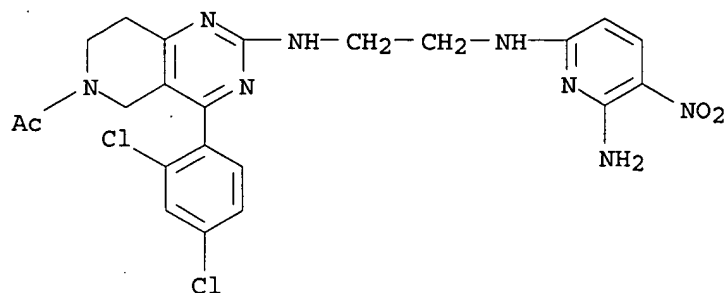
RN 344958-38-9 CAPLUS
CN Pyrido[4,3-d]pyrimidine-2,4-diamine, N2-[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]-N4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydro-, hydrochloride (9CI) (CA INDEX NAME)



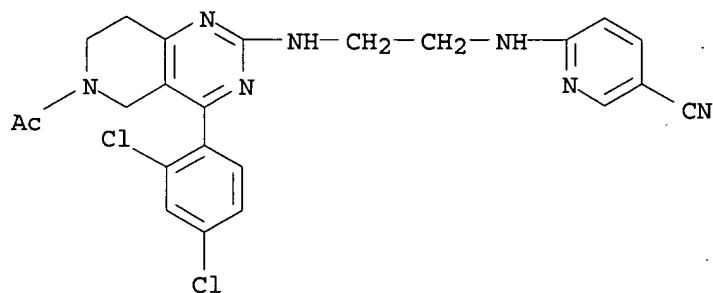
● x HCl

RN 344958-43-6 CAPLUS
CN Pyrido[4,3-d]pyrimidin-2-amine, 6-acetyl-N-[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]-4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)

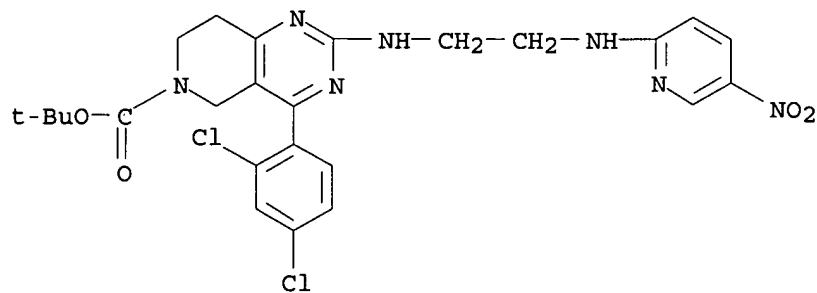
09/738066



RN 344958-44-7 CAPLUS
CN Pyrido[4,3-d]pyrimidin-2-amine, 6-acetyl-N-[2-[(5-cyano-2-pyridinyl)amino]ethyl]-4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydro- (9CI)
(CA INDEX NAME)



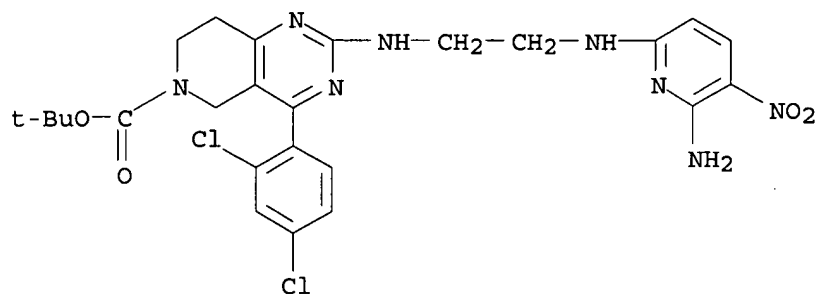
IT 344958-45-8P 344958-46-9P 344958-47-0P
344958-48-1P 344958-49-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of pyridopyrimidines as inhibitors of glycogen synthase kinase
3)
RN 344958-45-8 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid,
4-(2,4-dichlorophenyl)-7,8-
dihydro-2-[[2-[(5-nitro-2-pyridinyl)amino]ethyl]amino]-,
1,1-dimethylethyl
ester (9CI) (CA INDEX NAME)



RN 344958-46-9 CAPLUS

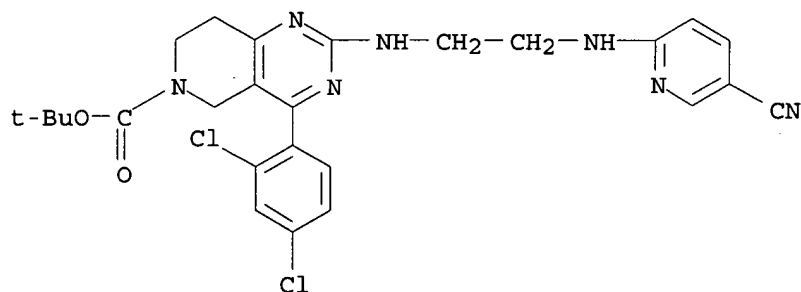
09/738066

CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 2-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-4-(2,4-dichlorophenyl)-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



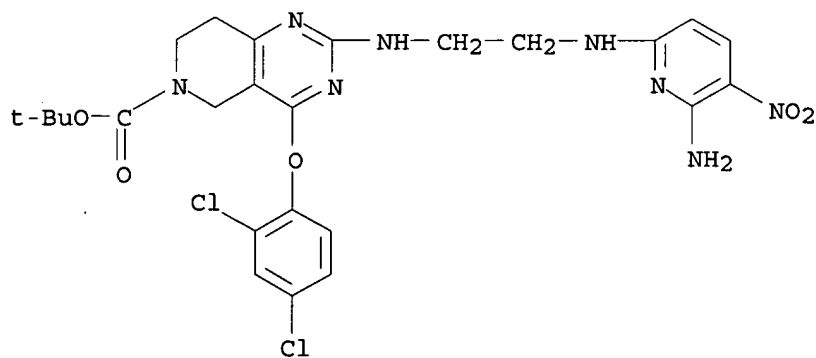
RN 344958-47-0 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 2-[[2-[(5-cyano-2-pyridinyl)amino]ethyl]amino]-4-(2,4-dichlorophenyl)-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 344958-48-1 CAPLUS

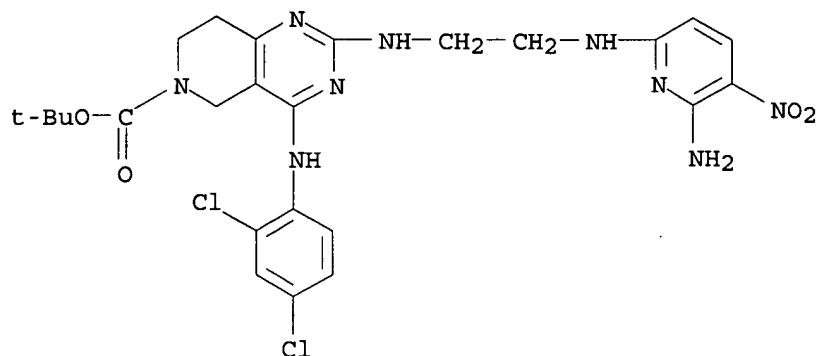
CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 2-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-4-(2,4-dichlorophenoxy)-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 344958-49-2 CAPLUS

09/738066

CN Pyrido[4,3-d]pyrimidine-5(6H)-carboxylic acid, 2-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-4-[(2,4-dichlorophenyl)amino]-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RE.CNT 6

RE

- (1) Chiron Corp; WO 9816528 A 1998 CAPLUS
 - (2) Ciba Geigy Ag; WO 9720821 A 1997 CAPLUS
 - (3) Haraoka, Y; JP 40-020867 B 1966 CAPLUS
 - (4) Kempter, G; JOURNAL FUER PRAKTISCHE CHEMIE 1977, V319(4), P589 CAPLUS
 - (5) Ramurthy, S; WO 9965897 A 1999 CAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	4.84	139.48
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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	-0.59	-0.59

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FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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=> s l1

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
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SAMPLE SEARCH INITIATED 15:11:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 8982 TO ITERATE

11.1% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 173969 TO 185311
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L1

L6 0 L5

09/738066

=> file marpat

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	0.62	140.72
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-0.59

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FILE CONTENT: 1988-PRESENT (VOL 104 ISS 15-VOL 135 ISS 11) (20010907/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 200101110 02 AUG 2001
DE 10006694 16 AUG 2001
EP 1123927 16 AUG 2001
JP 200121408 07 AUG 2001
WO 200105897 16 AUG 2001

MARPAT structure search limits have been raised.
Enter HELP SLIMIT for details.

=> s l1

SAMPLE SEARCH INITIATED 15:13:20 FILE 'MARPAT'
SAMPLE SCREEN SEARCH COMPLETED - 822 TO ITERATE

100.0% PROCESSED 822 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.05

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 14806 TO 18074
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L1

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	0.62	141.34
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-0.59

FILE 'STNGUIDE' ENTERED AT 15:13:51 ON 14 SEP 2001
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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Sep 7, 2001 (20010907/UP).

=> file caold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.00	141.34
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.59

FILE 'CAOLD' ENTERED AT 15:14:29 ON 14 SEP 2001
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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=> s ll

REGISTRY INITIATED

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SAMPLE SEARCH INITIATED 15:14:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 8982 TO ITERATE

11.1% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 173969 TO 185311
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L1

09/738066

L9 0 L8

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.93	142.89
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.59

FILE 'STNGUIDE' ENTERED AT 15:16:26 ON 14 SEP 2001
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 7, 2001 (20010907/UP).

=> file caold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.00	142.89
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.59

FILE 'CAOLD' ENTERED AT 15:17:33 ON 14 SEP 2001
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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=> s ll sss ful

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
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FULL SEARCH INITIATED 15:17:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 181564 TO ITERATE

100.0% PROCESSED 181564 ITERATIONS
SEARCH TIME: 00.00.18

12 ANSWERS

L10 12 SEA SSS FUL L1

L11 0 L10

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.31	277.07
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.59

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=> file caold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.00	277.07
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.59

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate
substance identification. Title keywords, authors, patent
assignees, and patent information, e.g., patent numbers, are
now searchable from 1907-1966. TIFF images of CA abstracts

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printed between 1907-1966 are available in the PAGE display formats.

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=> s l10

L12 0 L10

=> file marpat

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.62	277.69
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 200101110 02 AUG 2001
DE 10006694 16 AUG 2001
EP 1123927 16 AUG 2001
JP 200121408 07 AUG 2001
WO 200105897 16 AUG 2001

MARPAT structure search limits have been raised.
Enter HELP SLIMIT for details.

=> s l10

SAMPLE SEARCH INITIATED 15:22:09 FILE 'MARPAT'
SAMPLE SCREEN SEARCH COMPLETED - 822 TO ITERATE

100.0% PROCESSED 822 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.05

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 14806 TO 18074
PROJECTED ANSWERS: 0 TO 0

L13 0 SEA SSS SAM L1

=> log y

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	0.31	278.00
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-0.59

* * * * *

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d L1
d his